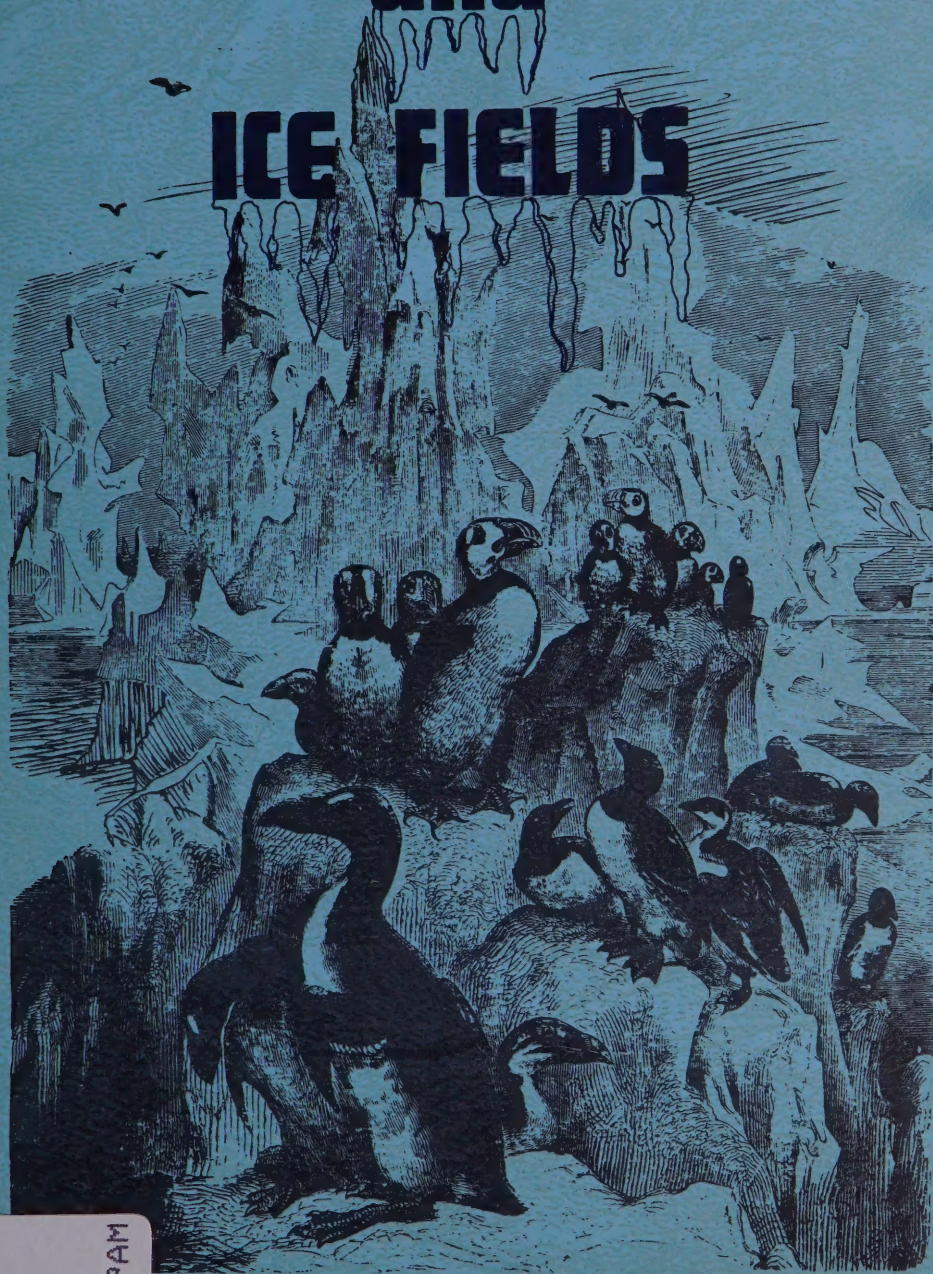


# ALASKA GLACIERS

and

# ICE FIELDS



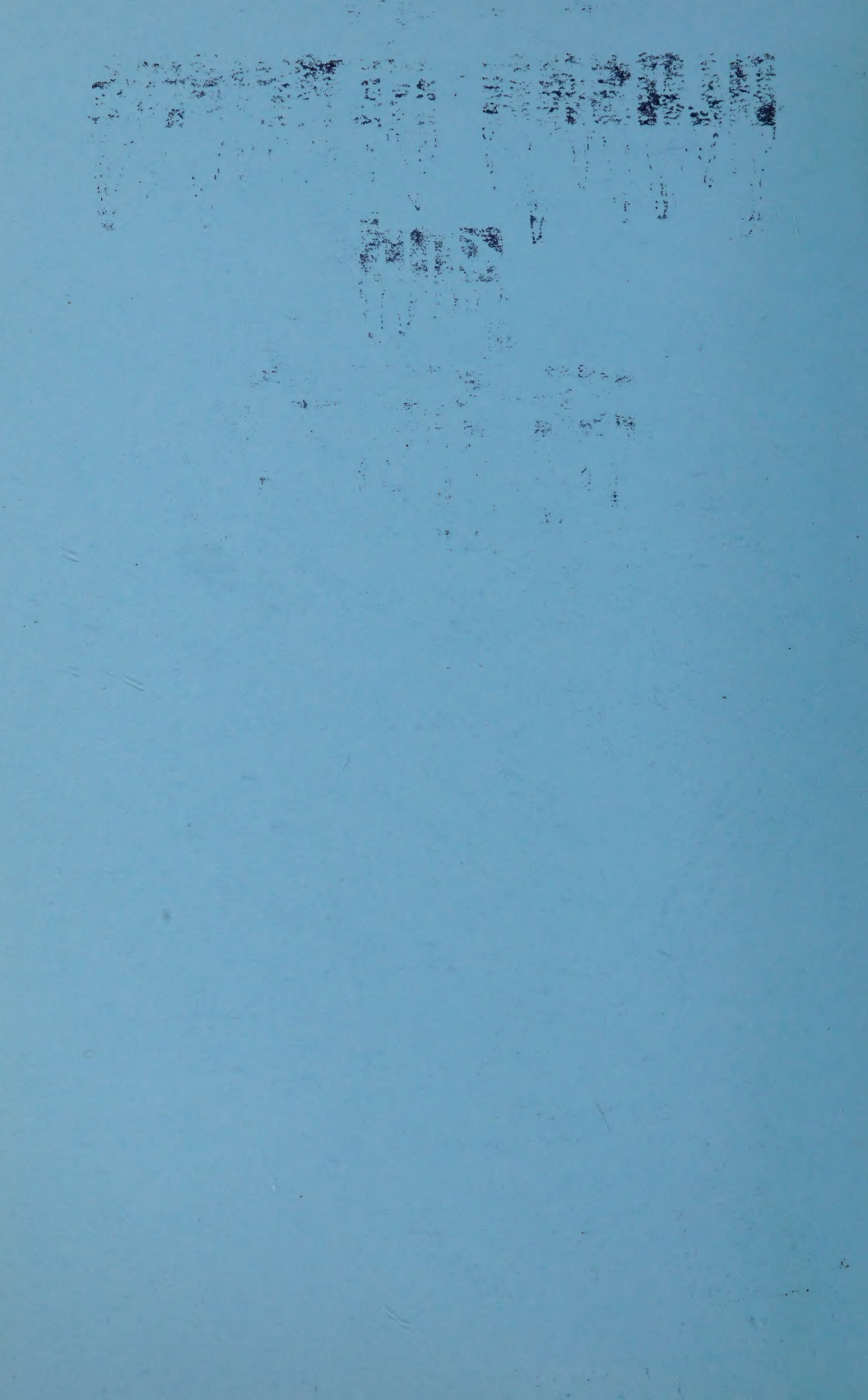
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LLOYD W. MACDOWELL

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# ALASKA GLACIERS AND ICE FIELDS

by Lloyd W. MacDowell

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And Issues Monthly

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Alaska Route. Copies of which  
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*Published by*  
THE ALASKA STEAMSHIP COMPANY  
SEATTLE, WASHINGTON  
MDCCCCVI

Facsimile Reproduction 1965

THE SHOREY BOOK STORE BOREAL INSTITUTE  
815 Third Avenue LIBRARY  
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ALASKA GLACIERS  
AND ICE FIELDS  
by Lloyd W. McDowell

THIRD PRINTING  
Of Facsimile Reprint

Limited to 150 Copies  
June 1975

ISBN #0-8466-0064-1

Published by  
THE ALASKA STEAMSHIP COMPANY  
SEATTLE, WASHINGTON  
MOOREHEAD

Facsimile reproduction 1962  
THE SHOREY BOOK STORE  
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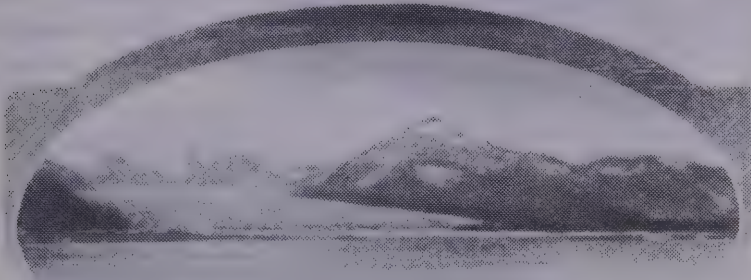
TAKU GLACIER.



## ALASKA GLACIERS AND ICE FIELDS.

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*Have you ever trudged over one of the mighty and far-extending ice fields of Alaska, beholding the multitude of pinnacles and spires, and watched the great white masses tumble into the sea, sending the silvery foam surging high up the wall-like cliffs?*

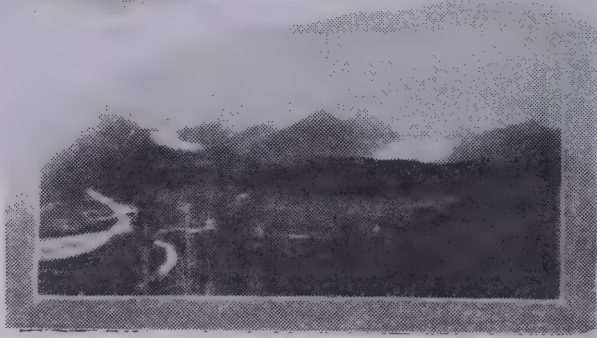
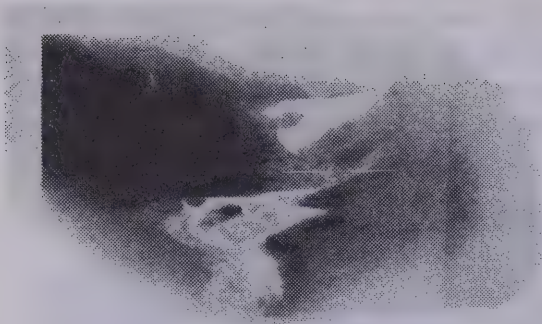


### WINDHAM GLACIER.

Tourists planning an outing should consider this question if they would visit a land which offers some of the most colossal and sublime scenery on the world's highways. It is a country where the field for glacial study is unlimited and as these gigantic ice-barriers flash and blaze in the sunlight one may well fancy that this beautiful and varied phenomena is but the fantasy of a dream.

As the Alaska liners plow their way through the waters of the far-famed inland passage hundreds of large and small glaciers are seen from the decks of the vessel. Now and then the tourist

will be awakened  
from a reverie by  
the thundering  
crash of jagged  
ice falling from  
the high and pre-  
cipitous cliffs  
which revive the  
sleeping echoes in

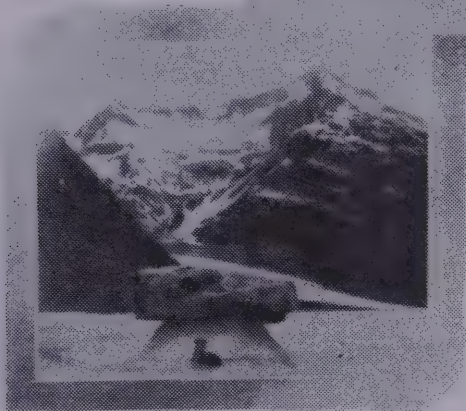
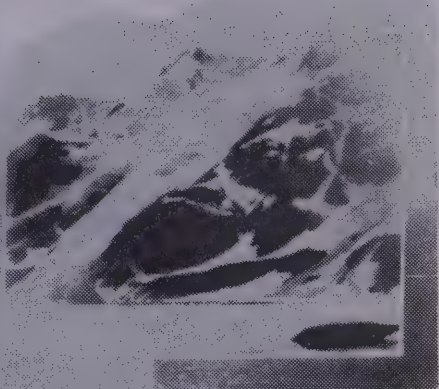


HERBERT AND EAGLE GLACIERS.

the neighboring pine-clad mountains.

Floating ice often whitens the various channels through which vessels must pass before the terminus at the head of Lynn Canal is reached. This wonderful sight appeals at once to the restless mind and during the lengthened twilights of summer the weird beauty leaves an indelible picture on the memory of the traveler. When the Midnight Sun is shining in all its glory the tricks of the mirage are witnessed and the thousands of ice floes and bergs are transformed into queer shapes of most remarkable description.

Often the bergs form an impenetrable pack through which it is impossible for the vessel to advance and near the face of Alaska's largest glaciers navigation has been



ROCK ON DENVER GLACIER.

rendered extremely dangerous. Several steamships have approached within a mile of Muir and Taku glaciers and numerous excursionists have been landed on Davidson glacier.

The formation of inland glaciers is no different from that of tide-water glaciers but they do not have the picturesqueness of the broken extremities which are constantly sending huge cakes of ice into the ocean, giving the appearance of floating islands. It would probably be impossible to count the glaciers of Alaska as they fill nearly every mountain cleft, crowd the wide valleys and extend over territory where the sturdy and unfailing prospectors have never yet set foot.

## FORMATION OF GLACIERS.

Climatic conditions, taken all together, are favorable for the growth of glaciers in Alaska. A recent writer says "that true glaciers are confined to the southern parts of the territory and depend on the combinations of climatic and topographical conditions for their extent and geographical distribution." All glaciers are formed in regions of perpetual snow but recent explor-



S. S. DOLPHIN AT TAKU GLACIER.

ations show that not all perpetual snow mountains contain these vast ice beds. When glacial-ice is absent in the valleys of snow-covered ranges it is because other necessary conditions are lacking. No matter how many arms or branches a glacier may have spread in traverse valleys intersecting the main glacial valley all are connected with the perpetual snow caps above.



Great humidity, which causes abundant snow fall, is one of the conditions that must be present for the formation of glaciers on these heights. To compact the millions of tiny crystals into glacier-ice the snow

must be subjected to a changeable temperature, alternate thawing and freezing. Many persons probably wonder why these great white fields extend below the snow line, and below the mean line of 32°, or freezing point. A brief explanation is given by the

late Professor Joseph Le-Conte in the following words: "The upper part of a glacier is perpetual snow, which has drifted in and fills the summit valley. Lower down the val-



Ice from Le Conte Glacier, near Wrangel.



TOURISTS ON DENVER GLACIER.

ley one finds a granulated or intermediate snow, that is, a formation between snow and ice which gradually changes to glacier-ice in the lower altitudes." By the gravitation and pressure of the upper ice fields the face of the glacier moves snail-like to tide water where weather conditions cause the great chunks to break away from the active glacier and float about in navigable waters.

Nearly all glaciers of Alaska are prolongations of vast ice



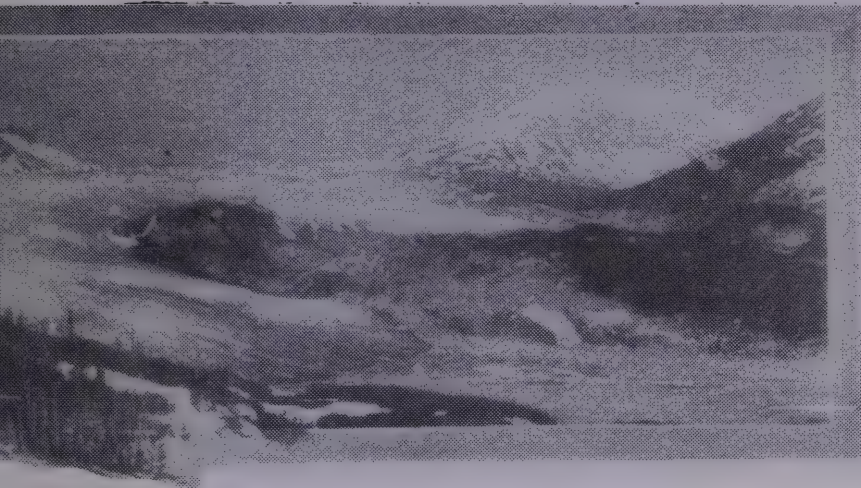
THE "MAT"

fields fed from the tops of high and stately peaks. The glaciers are moving all the time, but only very slowly and the glacial-ice freed by coming in contact with the sea usually finds an outlet to the Pacific through one of the many fiords, and the action of the warm ocean currents causes these broken masses to melt away. The borders of many of Alaska's glaciers are moraine-covered and contain small and shallow lakes. Their formation seems to be

initiated by the melting back of the sides of crevasses. As they broaden the openings are filled with water and miniature rivers flow here and there on the slopes of the glacier feeding into the icy depressions.

### LIVE AND DEAD GLACIERS.

Travelers who journey to Alaska will find that the residents have applied the term "live glaciers" to ice-fields discharging into



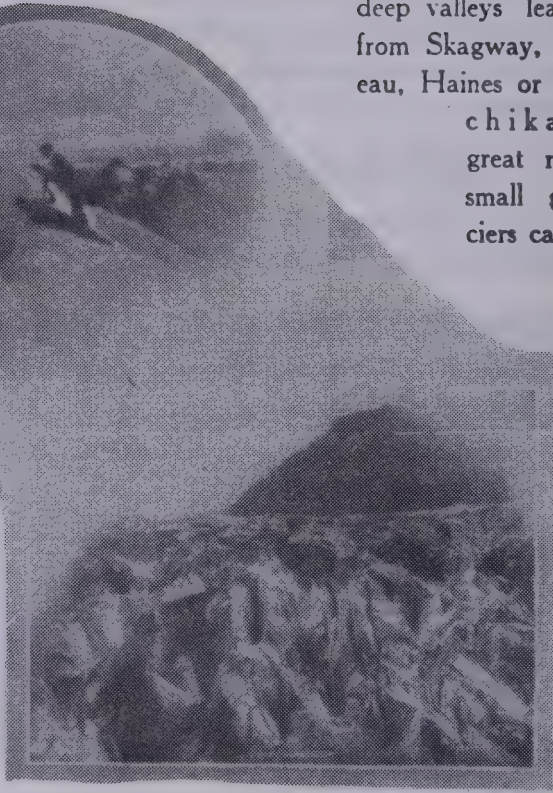
ORN" OF ATLIN, B. C.

the ocean. Those located on the mountain slopes far above sea level are generally referred to as glaciers of the Alpine type because they so resemble the glacial-ice of the Alps in Switzerland. Glaciers which formerly discharged into large bodies of water but are now separated by moraines are termed "dead glaciers." Often old navigators will refer to the Davidson glacier as dead since it is separated from the water's edge by Glacier point.



By traversing the  
deep valleys leading  
from Skagway, Jun-  
eau, Haines or Ket-  
chikan a  
great many  
small gla-  
ciers can be

seen on the  
adjacent  
mountains.  
They are  
the source  
of swift riv-  
ers which



DAVIDSON GLACIER.

wind in and about the valleys until they finally reach the ocean. Close to Skagway is the great "S" glacier, so called because in appearance it resembles that letter of the alphabet. Uper glacier is an extension of the "S" glacier. These glaciers are not more than ten miles from Skagway and are the source of a river which flows from the narrow and rock-lined valley leading to the summit



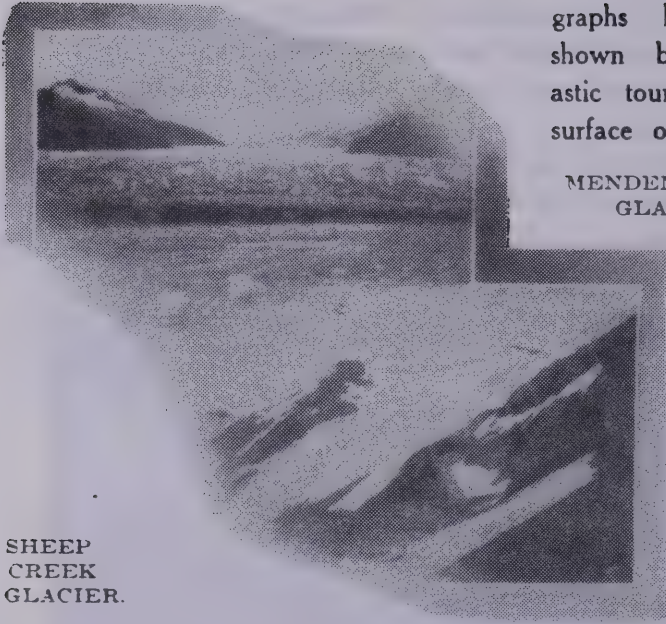
of the White Pass mountains. Both glaciers, together with other ice fields in a radius of ten to fifteen miles from the Lynn Canal city, have lately been visited by tourists and some excellent photographs obtained.

It is only in recent years that excursionists have been given an opportunity to explore the many glaciers of Southeastern Alaska and now a trip to the North is not complete unless the tourist



FOSTER GLACIER.

wanders for a day over some great stretch of ice beholding the beautiful color effects as the sun's rays dance about on these dazzling serpents of glacial-ice. One of the largest inland glaciers in North America is located not far from the shores of Lake Atlin, in British Columbia. It is familiarly called the Llewellyn glacier and extends for miles over the mountainous country in that vicinity. Often trips are made from Atlin to this glacier and excellent photo-



graphs have been shown by enthusiastic tourists. The surface of many of

MENDENHALL  
GLACIER.

SHEEP  
CREEK  
GLACIER.

the northern glaciers is exceedingly rough owing to the presence of crevasses and unequal melting. It takes an experienced glacier climber to find his way over the ice-fields without accident. Joseph LeConte, George Davidson, John Muir and other explorers of note were among the first persons to write of Alaska's wonderful glacial-ice and the vast beds they discovered still retain their names.

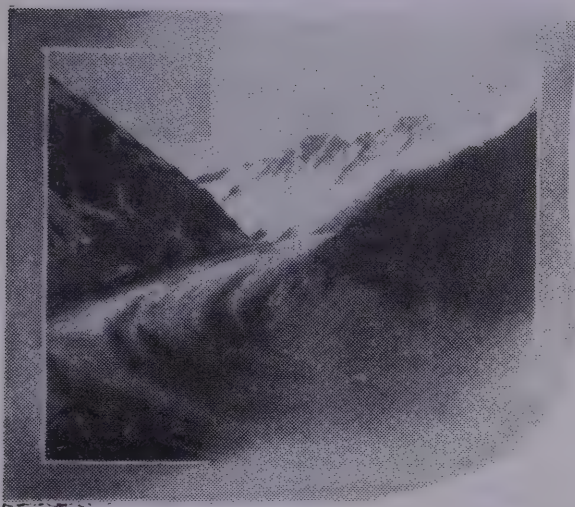
### GLACIER CLIMBING IN ALASKA.

It would be advisable for tourists to procure the services of an experienced guide before an attempt is made to climb one of Alaska's glaciers. In the towns along the Southeastern coast are men of experience in that line who will pilot any number of pleasure seekers over the surface of one of these ice beds and take them

to points where an unobstructed view of crevasses and floating icebeds may be had without the least fear of an accident. Persons intending to climb about on a glacier should



ON DENVER GLACIER.



NEAR DAVIDSON GLACIER.

provide themselves with alpine sticks and creepers. The blunt instrument fastened to one of these sticks is used to cut steps about in steep places as well as to support the weight of the climber and act as a balance pole. The steel



creepers are fastened to the shoes and it is almost impossible for a person to lose his footing with this device properly secured.

Those who may desire to explore one or more of Alaska's wonderful glaciers had best disembark from the steamship at Skagway or Juneau and prepare for a trip. The necessary paraphernalia will be furnished the tourists at any of the many curio stores or photograph galleries. It is possible that the proprietor of one of



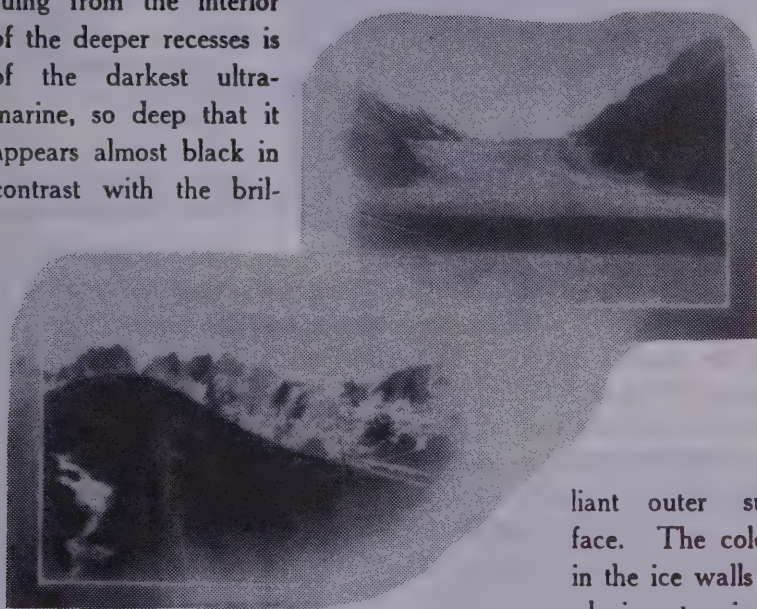
MUIR GLACIER.

these places will offer his services for a reasonable sum and if the excursionists are fortunate enough to be accompanied by men of wide experience in glacier-climbing they will be guided to the beauty spots of these limitless bodies of ice. During the summer months the climate of Alaska is very similar to that of the cities along the coast of Oregon and Washington. It will not be necessary for the tourists to burden themselves with heavy clothing for such a trip and clad in light garments they can roam about on the glaciers taking snap shots at the over-hanging ice cliffs or stopping



now and then to marvel at the scenic beauties surrounding them.

Colors of the fractured ice are as varied as the ever-changing forms they assume. As the vessels pass close to these fields of dazzling whiteness it will be noticed that many of the bergs are of the color of turquoise. Surfaces of glaciers that have been longest exposed to the atmosphere are always white and glittering while the caverns reveal the intense blue of the crystal mass to be seen within. The light issuing from the interior of the deeper recesses is of the darkest ultramarine, so deep that it appears almost black in contrast with the bril-



DAVIDSON GLACIER.

liant outer surface. The colors in the ice walls of glaciers terminating at tide water

run from indigo to light blue and the tourist never grows weary watching the colors change as the great pieces of ice tumble into the water from the serrated crest of the glaciers. These crumbling cliffs are a ruin that is constantly renewed among northern ice-fields.

## GLACIERS OF INSIDE PASSAGE.

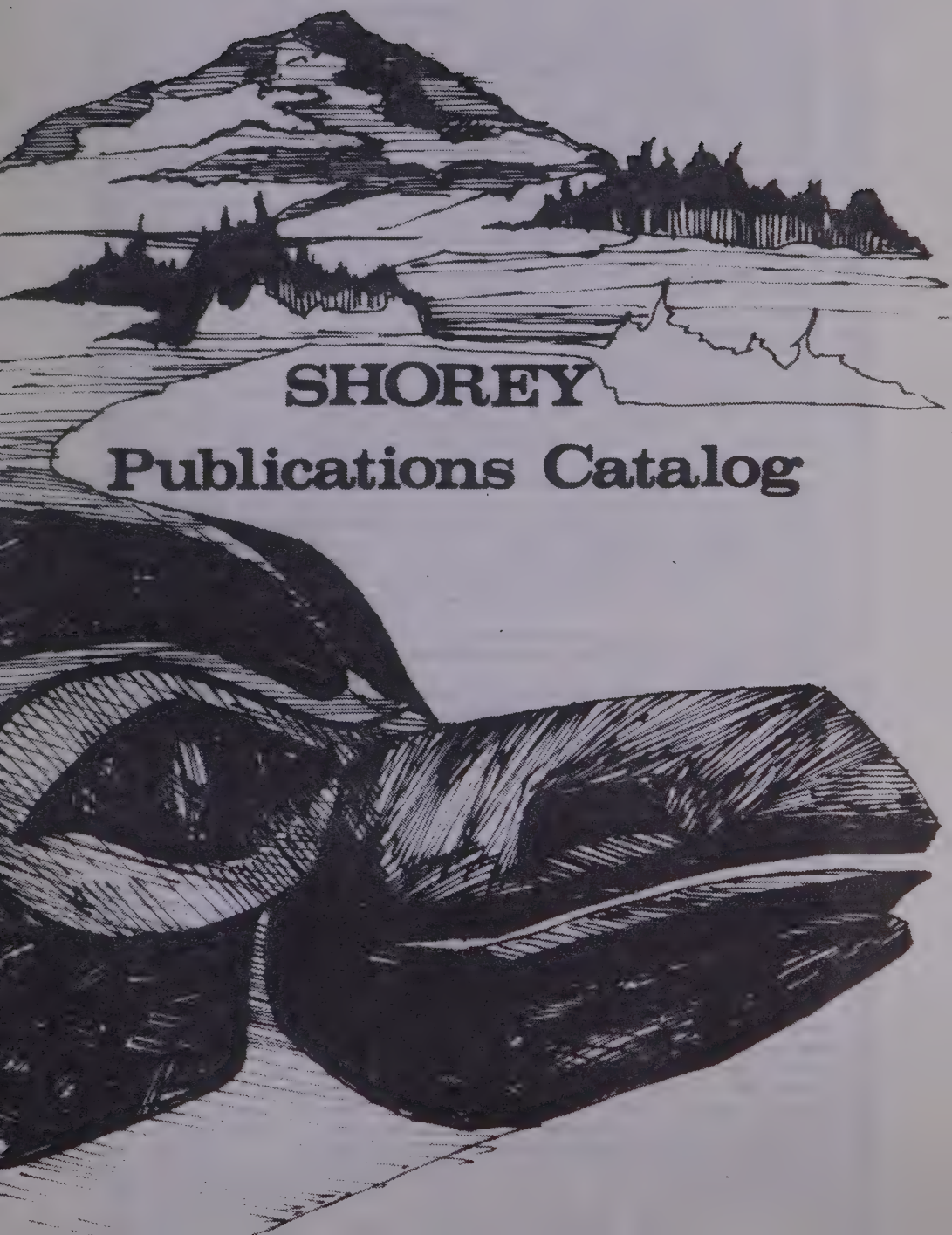


MOUNT DEWEY. SKAGWAY.

As the vessels pass through Wrangel Narrows and emerge into the placid waters of Frederick sound the first floating ice is usually seen by the tourists. After the steamer swings to the left Patterson, Baird and Elephant glaciers come into view. They occupy clefts high up the sides of

the mountains and glacial-ice from these fields does not reach tide-water. Another glacier is seen on the starboard side. This will be the tourist's first view of a "live" glacier. The Indians have given the ice-field the name of Hutli. LeConte glacier is at the head of LeConte bay on the north side of Frederick sound.

Sailing from the sound into Stephen's passage the Sumdum glacier is seen. In Taku inlet is the famous Taku Glacier. It is a typical tide-water glacier. Near the Taku glacier is a sheet of ice known as Windham glacier. The next glacier visible is Mendenhall, or Auk glacier, 1,027 feet above sea level. Other ice-fields passed in that body of water are Rainbow and Bertha, but there are many large and small glaciers that have never been explored. Two in particular which have an elevation of over 6,000 feet. Just after passing Haines Mission Ferebee and three other glaciers are seen, the last in this great panorama extending over hundreds of miles, from Wrangel Narrows to Skagway



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